INSTRUCTIONS FOR HANDLING, STORING, & THAWING
PREMIXED & FROZEN (PMF) PRODUCTS

The product you have received is a two component resin system that has been
precisely weighed, mixed, degassed, and packaged. The mixed system is then quickly
frozen at -40ºC to -80ºC to retard the chemical reaction between components of the
curing polymer. This product is shipped via expedited freight in insulated containers with
-80ºC dry ice, or for some products not compatible with dry ice, with 14ºC blue ice gel
packs. Once the product is allowed to thaw it will begin to cure, the chemical reaction
continuing at a relatively fast rate. Therefore, it is very important that upon receipt of the
shipment the PMF product is transferred to a -40ºC freezer without any additional
handling or delay. Delays in shipment and delays in receiving must be avoided as the
PMF package must be transferred to a -40ºC freezer with 48 hours of shipment to
maintain product quality. Special packaging can be used to extend the 48 hour window
for international shipments.

PMF products must equilibrate to -40ºC prior to warming them to room temperature for
use. Equilibration should occur within 24 hours maximum of placing the product in a
-40ºC freezer. **If a PMF product is brought from -80ºC directly to room temperature
there is a high probability of creating irreversible air voids.**

Prior to application or use, allow the PMF product to thaw naturally to room temperature
(20º-25ºC). PMF product packaged in syringes or cartridges should be allowed to thaw
vertically, with the dispense tip up. Accelerating the thaw processes by exposure to
heat sources such as ovens, hot air guns, hot plates, or warm water baths is not
recommended. Thaw time varies from 10 minutes to two hours depending on the type
and size of the PMF package. Wipe all excess moisture off the package prior to use.

Once thawed to room temperature, the product must be applied within the specified
work life, and then discarded. In most cases, excess cured material can be disposed of
as non-hazardous waste. We do not recommend that PMF product be refrozen and
reused after the initial thaw.

**CAUTION: USE THICK PROTECTIVE RUBBER GLOVES WHEN HANDLING DRY
ICE. READ AND UNDERSTAND THE SDS PRIOR TO PRODUCT USE. WEAR ALL
RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT.**